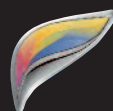# SHARP

MFP PERFORMANCE ANYWHERE YOU NEED IT

MX-C312

POWERFUL PERFORMANCE
IN A COMPACT HYBRID DESIGN

powerful

A flexible design for setup in countertop or floor-standing console configurations, expandable to 4-tray console with a maximum paper capacity of 2,100 sheets.

Sharp combines the SIMPLICITY AND CONVENIENCE of network printers with the MULTI-TASKING PRODUCTIVITY of color MFPs to achieve the best of both worlds. The MX-C312 is an exciting example of the SHARP® FRONTIER SERIES, bringing brilliant color output closer to your workgroup with a HYBRID DESIGN that has a small footprint to fit into environments others won't. The 7" (diagonal) HIGH RESOLUTION COLOR TOUCH-SCREEN simplifies operation by providing an intuitive user interface to keep ahead of today's fast-paced office document distribution needs. With Sharp's COMMON CONTROLLER ARCHITECTURE, the Frontier Series provides uniform functionality and operability as found in Sharp's AWARD-WINNING MFP PRODUCT LINE. Engineered to help reduce operating costs and downtime, the MX-C312 is easier than ever to set up, monitor and maintain. The MX-C312 offers modular expandability, remote-access capabilities and a VALUE-ADDED APPROACH to network and software integration. The latest in a long line of innovative Multifunction Document Systems, the MX-C312 incorporates Sharp's AWARD-WINNING SHARP OSA® DEVELOPMENT PLATFORM and industry-leading security suite to help protect data and control access.

The new MX-C312 ease and versatility will change your mind about MFPs. More power, less complexity—that's WORK WITHOUT LIMITS.

PRODUCTIVITY IN ACTION TO SPEED OUTPUT
AND STREAMLINE DOCUMENT WORKFLOW

The Sharp MX-C312 brings fast output, superior color quality and a compact footprint closer to the workgroup. Advanced and easy to operate features will help maximize efficiency, simplify

- Vivid color and crisp black-and-white documents can be quickly and accurately produced at speeds up to 31 pages per minute.

- Powerful 800 MHz controller for true multi-tasking performance and increased multi-functional productivity.

- Standard **PCL®6** and **PostScript®3™ compatible** printing systems with available XPS option.

- Sharp's powerful ImageSEND™ technology securely scans documents to up to seven destinations, including USB devices, network folders, e-mail, fax machines and desktop PCs, at speeds up to 35 images per minute. You get one-touch distribution features that centralize document workflow helping save time and money.

- Third-generation Sharp OSA development platform enables users to access network applications directly from the device's touch-panel display, helping to reduce redundancy and streamline workflow.

Workflo

document workflow and reduce operating expense. Incorporating Sharp's true multi-tasking controller technology, this powerful MFP meets the fast-paced needs of today's modern office.

- Optional Inner Finisher can be added without taking up much additional space. The space-efficient finisher not only provides exceptional productivity but also automates time-consuming tasks such as stapling, sorting and offset stacking.

- Direct USB Scanning and Printing provides a whole new level of convenience. It comes in handy for scanning documents directly to a USB memory device and is an easy way to print PDF documents.

- Sharp's easy-to-use Document Filing System provides robust hard drive space for fast document storage and retrieval, with thumbnail view and image preview modes that allow users to easily locate, identify and retrieve files.

- The Remote Front Panel feature allows administrators and help desk professionals to access and control the device from a remote PC workstation. This feature can also be used to help facilitate key operator training.

- The optional Super G3 Fax Kit with intelligent Inbound Fax Routing delivers lightning-fast faxing for busy workgroups.

- With Sharpdesk® personal document management software, users can easily organize their scanned documents and integrate them into everyday workflow.

- The optional Business Card Feeder can automatically feed and scan business cards and is capable of working with commercially available business card scanning software to automate contact database entry.

Optional business card feeder.

Front Panel USB 2.0 port for easy access.

ImageSEND

Send to FTP

Send to USB

Send to E-mail

Send to Desktop

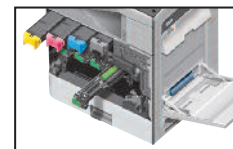Send to Internet Fax

Send to Fax

Send to Network Folder

USER-FRIENDLY, ECO-FRIENDLY OPERATION
TO HELP SPEED WORK, PROLONG LIFE AND REDUCE COST

design

The Sharp MX-C312 is designed to

minimize service requirements and

maximize uptime. The MX-C312

employs long-life, quick-replace

cartridges to help extend supplies

replenishment intervals and dramatically

reduce downtime. Maintenance is

trouble-free, with clean and simple

replacement of supplies and machine

maintenance procedures that can be

performed quickly and easily by service
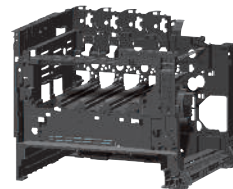
technicians or help desk professionals.

• By utilizing a long-life tri-component supplies system consisting of individual toner, developer and drum cartridges, the working life of developer and drums is significantly prolonged—and consumables yield can be up to six times higher than that of typical mono-unit consumable systems.

• Sharp encourages customers to make use of the Toner Recycling Program that provides a pre-paid shipping label for returning used Sharp toner cartridges to our recycling facility. Learn more at: www.sharpusa.com/recycle.

• Supplies can be replenished with no mess and no tools required. Maintenance parts such as primary transfer belt, transfer roller, fuser, paper feed rollers and document feed rollers are also designed for quick, tool-free replacement.

• Built on a sophisticated and rugged unibody frame, the MX-C312 is constructed to absorb vibration, reduce operating noise, and consistently produce superior image quality.

• Sharp's second-generation micro-fine toner technology and new developer combine to reduce graininess, produce clear reproduction of fine lines and halftone colors, and offer a lower consumption rate than conventional toner. The result is breathtaking image quality, less packaging materials and longer replacement intervals.

• Sharp is a four-time winner of the SmartWay® Excellence Award, which recognizes companies for conserving energy and lowering greenhouse gas emissions in logistics and transportation. Sharp was also a previous recipient of the Excellence in Partnership Green Contractor Award and the Evergreen Award from the General Services Administration (GSA) and the Coalition for Government Procurement. These awards recognize environmentally responsible businesses and their efforts on recycling, waste reduction and affirmative procurement practices.

Quick Replace Cartridges for Easy Maintenance
This design makes service and general maintenance easier without the need to disassemble the entire machine.

Highly-Rigid Main Frame
Helps better protect and isolate critical machine components.

PERSONALIZED AND VERSATILE
APPLICATION INTEGRATION

versatile

OSA®
Sharp Open Systems Architecture

Sharp OSA® technology at a glance
- Automate tasks and save time with seamless integration between the MX-C312 and network applications
- Centralized applications minimize setup and installation on multiple Sharp products
- Virtually eliminates repetitive tasks and streamlines workflow, increasing efficiency
- Maximize your return on investment with tighter integration among IT assets
- Industry standard programming leads to faster deployment of new solutions

Today's multifunction products must be versatile enough to handle fast-changing system requirements and security demands. For Sharp, that's a given—but we've gone much further. Designed for today's mobile and flexible workplace, the MX-C312 supports the AWARD-WINNING SHARP OSA development platform. This TECHNOLOGY delivers unparalleled efficiency, control and convenience. With SEAMLESS INTEGRATION, Sharp OSA-developed applications provide a window into your business applications, so you can access what you need, when you need it, right from the touch panel. With the ability to PERSONALIZE APPLICATIONS and processes specific to your business, Sharp OSA technology can help eliminate redundancy and streamline workflow. Utilizing INDUSTRY STANDARD NETWORK PROTOCOLS, such as XML and SOAP, Sharp OSA technology allows these MFPs to communicate with many different applications. As your integration and workflow needs change, count on Sharp's scalable technology to help KEEP YOU AHEAD.

PROVEN PROTECTION FOR CONFIDENTIAL DATA,
DEVICE ACCESS AND NETWORK SAFEGUARDS

The exchange of digital documents in the 21st century creates new challenges for network security. Sharp has developed an award-winning, multi-layered security system to help protect valuable

Authority Group and Access Control
Advanced account management enables administrators to set authority groups for access to features of the MX-C312. Administrators can control which department, for instance, has full access to color copying, printing, scanning and/or fax. Walk up users enter a code, Local Name and Password, or LDAP User Authentication to access their features assigned to their group. Users can also login utilizing a human interface device (HID) such as a Smartcard or Common Access Card (CAC).*

Documents Remain Confidential
To help protect your printed documents from unauthorized viewing, the MX-C312 offers encrypted PDF files for printing and scanning as well as **Confidential Printing** that requires users to enter a PIN code in order to print a queued document. Additionally, **Secure Fax Release** ensures received fax documents are held in memory until an authorized user enters a PIN code. So compliance with healthcare regulations such as HIPAA is easier.

networks

information and maintain employee confidentiality. Sharp has a long history in maintaining digital security—so corporate end-users and IT professionals can count on the proven safeguards of the MX-C312.

Data Erase and Encryption
To help protect your data, the MX-C312 Series offers an optional data security kit that encrypts document data using **AES** (Advanced Encryption Standard) **encryption**. Additionally, the data security kit erases the temporary memory on the hard drive by overwriting the encrypted data up to seven times, offering an unprecedented level of assurance.

Control Device Access Over the Network
To help restrict access to the device over the network, the MX-C312 offers IPsec, SMB and extended support for **SSL Encryption** (Secure Sockets Layer), **IP/MAC address filtering**, IEEE 802.1x authentication, protocol enable/disable and port management for maximum security.

Network Scanning Access
To help protect your network from unauthorized E-mail communications, the MX-C312 supports **User Authentication**, requiring users to login before performing any network scanning operations.

Tracking and Auditing Information
Legislation and industry policies require companies to be more aware of information flow from their offices. Sharp offers both built-in and additional hardware/software which allows users to control, access and track usage of each device on the network.

DATA SECURITY

These scalable security offerings aim to protect your intellectual property, preserve confidential information and help your business to meet regulatory requirements, such as the Health Insurance Portability and Accountability Act (HIPAA), and the Gramm-Leach-Bliley Act (GLB). For additional information visit: *www.sharpusa.com/security*

* Some features require optional equipment.
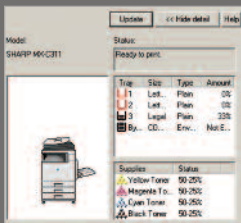
DEVICE MANAGEMENT MAXIMIZES
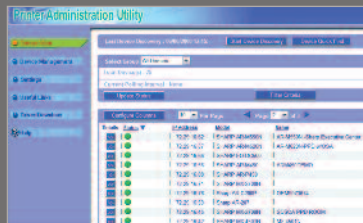## PRODUCTIVITY AND CONTROL

Sharp's MX-C312 combines integrated, user-friendly software with robust device management technology to help IT professionals manage usage, control costs and minimize downtime. To maximize opportunities while reducing document and support costs, office environments must MANAGE DOCUMENT WORKFLOW with greater intelligence. The Sharp ADMINISTRATION UTILITY SUITE is designed to do just that. It allows administrators to MANAGE DEVICES more efficiently. They can remotely manage the setup, configuration, device settings and more! The convenience of an Embedded Web Page gives users an advanced WEB-BASED MANAGEMENT TOOL of network scanning, profiles and web-links—while

manage

administrators can access device settings, color controls, account information and security settings to help SAVE TIME and IMPROVE PRODUCTIVITY. Sharp's device management system lets you TAKE CHARGE of color usage and costs. The REMOTE FRONT PANEL feature allows help desk professionals and support personnel to view and control the device's LCD Panel remotely from any authorized networked PC. Our Printer Status Monitor lets network users VIEW PRINTER CONDITIONS, check paper and toner levels right from the workstation. Powerful and Intuitive SHARPDESK® SOFTWARE enables individuals GREATER CONTROL OF SCANNED DOCUMENTS.

Printer Status Monitor   *Printer Administration Utility*   *Embedded Web Page*   *Remote Front Panel*

MX-C312 SPECIFICATIONS

Main Specifications

MX-C312	Includes multi-tasking controller, 80 GB HDD with document filing system, PCL® 6/PostScript® 3 network printing, network scanning, 50-sheet RSPF, auto-duplex, 500-sheet paper drawers and 100-sheet bypass. Black and color developer is included in the box.
Type	Color multi-function digital document system
Functions	Copy, print, network print, network scan, document filing and fax[1]
Copy System	Dry electrostatic transfer/Dual component developer/Magnetic brush development/OPC drums/Heat Roller fusing/Xenon Lamp Exposure
Originals	Sheets and Bound Documents
Max Original Size	8-1/2" x 14"
Copy Size	Min 5-1/2" x 8-1/2"/Max 8-1/2" x 14"
Copy Speed	31 ppm B&W/Color (Letter)
Multiple Copy	Max: 999 copies
First Copy Time	Platen glass: 8.0 sec or less (B&W); 8.9 sec or less (color) RSPF: 9.9 sec or less (B&W); 11.5 sec or less (color)*
Warm-Up Time	90 seconds or less*
Magnification	50% to 200% in 1% increments (50 to 200% for RSPF)
Original Feed	50-sheet RSPF with original size detection
Scan Speed	Copy mode (Simplex): Up to 35 ipm (B&W or color) @ 600 X 300 dpi. Network Scan (Simplex): Up to 35 ipm (B&W or color) @ 200 x 200 dpi.
Original Sizes	5-1/2 x 8-1/2 / 8-1/2 x 14 (15-lb bond to 110-lb index)
Paper Feed System	Standard: 500 sheet paper drawer (Letter/Legal) and 100-sheet bypass tray (Letter/Legal). Optional: Up to 3 additional 500-sheet paper drawers (Letter/Legal)[2]
Paper Types	Paper drawers: 16-28 lb. bond. Other paper types include: plain, pre-printed, recycled, pre-punched, letterhead, and color paper. Bypass Tray: 16-28 lb. bond (plain paper), 15-16 lb. (thin paper), 28 lb. bond-110 lb. index (heavy paper), 20-24 lb. (Monarch/Com-10 envelope). Other types include label paper, gloss paper, pre-printed, recycled, pre-punched, letterhead, color film and OHP Film.
Duplexing	Standard automatic duplex copying and printing
CPU	Power QUICCIII-MPC8533E/800MHz
Interface	RJ-45 Ethernet (10Base-T/100Base-TX/1000Base-T), USB 2.0 (Host Port), USB 2.0 (Device Port)
Memory	Standard 1 GB (copier); 512 MB (printer/network scanning) memory
Hard Disk Drive	80 GB; up to 50 GB document filing system
Copy Resolution	Scan: B&W/Color: 600 dpi; Copy output: B&W/Color 600 dpi
Color Modes	Auto Color Control, Full Color Mode, Monochrome (B&W), 2 Color Mode, Single Color Mode.
Exposure Control	Modes: Automatic (Color: Magical View, B&W: Character AE) Text, Text/Photo, Text/Printed-Photo, Printed-Photo, Photo, Map, Pale-Color document. Settings: Auto exposure control or 9 step manual exposure.
Halftone	256 gradations/2 levels (monochrome)
Copy Features	Scan-Once-Print-Many, electronic sorting, Auto Color Sensing (ACS), Auto Paper Sensing (APS), Auto Magnification Sensing (AMS), Auto tray switching (ATS), rotation copy, reverse copy, margin shift, edge erase, OHP insertion, card shot, reverse image, black-white reversal, centering, proof copy, 2-in-1, photo repeat, document filing, job programs, date/character/page stamp (color)
Account Control	Up to 1000 users. Supports user-number authentication (on device), login name/management, date/character/page stamp (color), Copy, Print, Scan, Fax and Document Management
Output Tray Capacity	Main output tray (top) 250 sheets (face down)
Firmware Management	Flash ROM with local (USB); network update capability and firmware update 1 to N with PAU (Printer Administration Utility)
Configuration Method	Web-based management system with user/administrator level login security, cloning (1 to N) with PAU and remote front panel access
Service/ Maintenance	Remote Front Panel Access to service logs and click counts
Power	AC 100-127VAC, 60HZ, 12 AMPS
Power Consumption	Maximum: 1.44kW or less.
Weight	Approx. 102 lbs (base model)
Dimensions	22-3/64" x 17-1/4" x 28-7/64"

Network Printing System (Standard)

PDL	PCL®6, PostScript®3™ compatible, optional XPS
Resolution	1200 dpi, 600 dpi
Print Speed	31 pages per minute (Letter)
Print Drivers	Windows Server® 2003-2008, Windows XP, Windows XP x 64, Windows Server x64, Windows Vista®, Windows Vista x 64, Windows® 7, MAC® OSX® (including 10.4.11, 10.5-10.5.8, 10.6-10.6.8, 10.7-10.7.4, all MAC PPD.
Features	Continuous printing, duplex printing, pamphlet printing, N-up printing, image rotation, different cover page/last page, transparency inserts, carbon copy print mode, fit-to-page, poster print, margin shift, mirror image, watermarks, overlay, confidential print, confidential batch print, print hold, bypass printing, job priority printing and direct printing. (Note: Some features not available on certain print drivers)
Direct Printing	File Types: TIFF, JPEG, PCL, PRN, TXT, PDF, Encrypted PDF, PostScript and XPS[1]. Methods: FTP, WebPage, E-mail and USB Memory
Resident Fonts	80 Outline Fonts
Interface	RJ-45 Ethernet 10Base-T/100Base-TX/1000Base-T
Operating Systems	Windows Server® 2003-2008, Windows® XP, Windows Vista, Windows 7, MAC OSX 10.4.11, 10.5-10.5.8, 10.6,10.6.8, 10.7-10.7.4, Novell® Netware® 3x, 4x, 5x, Sun® OS 4.1x, Solaris® 2x, Unix®, Linux® and Citrix® (Metaframe, Presentation Server 4, 4.5) and Windows Terminal Services.
Network Protocols	TCP/IP (IPv4, IPv6, IPSEC) SSL (HTTP, IPP, FTP), SNMPv3, 802.1x for Windows and Unix. LPD and LPR for UNIX. IPX/SPX® for Novell environments. EtherTalk® and NetBEUI, AppleTalk for Macintosh® environments.
Printing Protocols	LPR, IPP, IPPS, PAP, Raw TCP (port 9100), FTP and Novell Pserver/Rprinter
Network Security	IP/Mac address filtering, protocol filtering, portmanagement, user authentication and document administration.
Security Standards	IEEE 2600-2008, DoD (NSTISSP) #11, DoD Directive 8500.2, DoD (DISA)

Network Scanning System (Standard)

Max Original Size	8-1/2" x 14"
Optical Resolution	600 dpi
Output Modes	600 dpi, 400 dpi, 300 dpi, 200 dpi, 100 dpi
Scan Modes	Color, monochrome, grayscale
Image Formats	Monochrome: TIFF, PDF, Encrypted PDF, XPS[1] Color: Grayscale, Color TIFF, JPEG, PDF, Encrypted PDF, XPS[1] Internet Fax: TIFF-FX, FIFF-F, TIFF-S[1]
Image Compression	Monochrome Scanning: Uncompressed, G3 (MH), G4 (MR/MMR) Color/Grayscale: JPEG (High, middle, low) Internet Fax mode: MH/MMR (option)
Scan Destinations	E-mail, Desktop, FTP, Folder (SMB), USB, Internet fax (option), Super G3 fax (option)
One-Touch Destinations	Up to 999 (combined scan destinations)
Group Destinations	Up to 500
Programs	48 (combined)
Max. Jobs in Memory	Up to 94
Network Protocols	TCP/IP and SSL (Includes HTTP, SMTP, LDAP, FTP, POP3), SMB, ESMTP and 802.1x
Network Security	E-mail server user authentication for LDAP and Active Directory
Software	Sharpdesk® desktop document management software (1 user license)

B&W Super G3 Fax Kit (Option)

Transmission Mode	Super G3, G3
Modem Speed	33.6 KBPS[3]
Compression Methods	JBIG, MMR, MR, MH
Scanning Method	Sheet fed simplex or duplex or book
Max Transmit Resolution	400 dpi
Transmit Speed	Approximately 2 seconds with Super G3/JBIG[4]
Auto Dialing	Up to 999 (combined scan destinations)
Group Dial/ Destinations	Up to 500
Inbound Fax Routing	Forwards received fax data to E-mail, FTP, Desktop, SMB

B&W Super G3 Fax Kit - Continued

Long Length Originals	Up to 19.5" (for transmission)
Programs	48 (combined)
Memory	8 MB (Exclusive)
Halftone	256 levels
Features	Quick on-line transmission, direct transmission, F-Code transmission/reception, rotate transmission, anti-junk fax reception, automatically staple received faxes, secure fax release, out of paper memory reception, auto redial, duplex reception transaction reports, activity reports and PC Fax.

Inner Finisher (Option)

Type	Built-in Finisher
Output Capacity	Up to 280 sheets (Letter/Legal), 100 postcard, 20 envelope
Output Delivery	Face down
Stapling Media	Plain/Thin/Heavy/Recycled/Letterhead/Pre-punched/Colored/Preprinted paper
Stapling Positions	Single corner position
Power Source	Supplied from the main unit
Stapling	30 sheets Letter/legal
Stapled Sets	10 bundles or 300 sheets (letter/legal)
Weight	Approx. 19.8 lbs
Dimensions	18-2/3" (w) x 13-1/16" (d) x 6-3/16" (h)
(When Tray is expanded)	20-1/2" (w) x 13-1/16" (d) x 6-3/16" (h)

Optional Equipment

MX-BTX1	Business Card Feeder
MX-FN12	Inner Finisher
MX-DS13	Base Plate with
MX-DS14	Stackable Cabinet
MX-CSX1	500 sheet Paper Feed Unit for Tray 2
MX-CSX2	500 sheet Paper Feed Unit for Trays 3 & 4
MX-PUX1	XPS Expansion Kit (Requires MX-SHP1GBXPS)
MX-SHP1GBXPS	Expansion Memory 1 GB (Required for MX-PUX1)
AR-PF1	Bar Code Font Kit
MX-FR29U	Commercial Data Security Kit
MX-FXX3	Fax Expansion Kit
MX-FWX1	Internet Fax Expansion Kit
MX-AMX1	Application Integration Module
MX-AMX2	Application Communication Module
MX-AMX3	External Accounting Module
MX-USX1	Sharpdesk 1 License Kit
MX-USX5	Sharpdesk 5 License Kit
MX-US10	Sharpdesk 10 License Kit
MX-US50	Sharpdesk 50 License Kit
MX-USA0	Sharpdesk 100 License Kit

Supplies

MX-C40NTB	Black Toner Cartridge
MX-C40NTC	Cyan Toner Cartridge
MX-C40NTM	Magenta Toner Cartridge
MX-C40NTY	Yellow Toner Cartridge
MX-C40NVB	Black Developer
MX-C40NVC	Cyan Developer
MX-C40NVM	Magenta Developer
MX-C40NVY	Yellow Developer
MX-C40NRB	Black Drum Cartridge
MX-C40NRS	Color Drum Cartridge
MX-C31HB	Toner Collection Container
MX-SCX1	Staple Cartridge

*May vary depending on product configuration, machine settings and operating and/or environmental conditions.

[1] Some features require optional equipment
[2] Paper capacity is based on letter size paper
[3] Actual transmission time will vary based on line conditions
[4] Based on Sharp Standard Test Chart with approximately 700 characters, letter size in standard resolution

ImageSEND

OSA Sharp Open Systems Architecture

mV™ SHARP

MIX From responsible sources FSC www.fsc.org FSC® C016602

SHARP